



10/077130

cofe

Practitioner's Docket No. MPI01-047P1RNM

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	7,001,753 B2
Date of Issue:	February 21, 2006
Name of Patentee:	Rosana Kapeller-Libermann (as amended)
Title of Invention:	59079 AND 12599, PROTEIN KINASE FAMILY MEMBERS AND USES THEREFOR

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL

Certificate
APR 06 2006
of Correction

1. Transmitted herewith for this application is/are:
 - a. This Transmittal (2 pages);
 - b. Request for Certificate of Correction of Patent for PTO Mistake (2 pages);
 - c. Certificate of Correction (1 page - in duplicate);
 - d. Copy of Amendment and Processing Fee Deleting Correctly Named Persons Who are Not Inventors of Invention Now Being Claimed filed July 21, 2005 (2 pages);
 - e. Power of Attorney and Correspondence Address Indication Form (1 page);
 - f. Statement under 37 CFR 3.73(b) (1 page);
 - g. Copy of Notice of Recordation, Recordation Form Cover Sheet, and executed Assignment (7 pages); and
 - h. Return Postcard.

STATUS

2. Applicant is other than a small entity.

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☒ deposited with the United States Postal Service in an envelope addressed to Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
37 C.F.R. SECTION 1.8(a)

37 C.F.R. SECTION 1.10*

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.

Signature

Sean Hunziker

(type or print name of person certifying)

Date: March 31, 2006

***WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Page 1 of 2)

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Practitioner's Docket No. MPI01-047P1RNM

FEE DEFICIENCY

3. If any additional extension and/or fee is required, charge Account No. 501668.
If any additional fee for claims is required, charge Account No. 501668.
4. Correspondence Address
Direct all future correspondence to:

Customer Number 30405
OR
Intellectual Property Department
MILLENNIUM PHARMACEUTICALS, INC.
40 Landsdowne Street
Cambridge, MA 02139

March 31, 2006

MILLENNIUM PHARMACEUTICALS, INC.

By

Mario Cloutier

Mario Cloutier

Registration No. 57,225

40 Landsdowne Street

Cambridge, MA 02139

Telephone - 617-577-3522

Facsimile - 617-551-8820

1A7-6 4000



Patitioner's Docket No. MPI01-047P1RNM

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patent Number:	7,001,753 B2
Date of Issue:	February 21, 2006
Name of Patentee:	Rosana Kapeller-Libermann (as amended)
Title of Invention:	59079 AND 12599, PROTEIN KINASE FAMILY MEMBERS AND USES THEREFOR

Attention: Certificate of Correction Branch
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**REQUEST FOR CERTIFICATE OF CORRECTION OF PATENT
FOR PTO MISTAKE (37 C.F.R. SECTION 1.322(a))**

1. Attached hereto, in duplicate, is PTO/SB/44 (also Form PTO—1050), with at least one copy being suitable for printing.
2. The exact pages where the errors appear are:

Cover Page

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:


MAILING

- ☒ deposited with the United States Postal Service in an envelope addressed to Attention: Certificate of Correction Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
37 C.F.R. SECTION 1.8(a) **37 C.F.R. SECTION 1.10***

- ☒ with sufficient postage as first class mail. ☐ as "Express Mail Post Office to Addressee" Mailing Label No.

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.


Signature

Sean Hunziker

(type or print name of person certifying)

Date: March 31, 2006

***WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

(Page 1 of 2)

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Practitioner's Docket No. MPI01-047P1RNM

3. Please send the Certificate to:

Name: Customer No.: 30405
Millennium Pharmaceuticals, Inc.
Attn: Docketing Department
40 Landsdowne Street
Cambridge, MA 02139

4. Assignee: Millennium Pharmaceuticals, Inc., Cambridge, Massachusetts

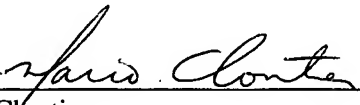
☒ Assignment recorded on

June 18, 2002 Reel 013004, Frame 0384
Copy of Assignment of the invention from Rosana Kapeller-Libermann and
Susan L. Action to Millennium Pharmaceuticals, Inc.

☒ Recordal of assignment attached

March 31, 2006

MILLENNIUM PHARMACEUTICALS, INC.

By 
Mario Cloutier
Registration No. 57,225
40 Landsdowne Street
Cambridge, MA 02139
Telephone - 617-577-3522
Facsimile - 617-551-8820

APR - 6 2006

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO : 7,001,753 B2

DATED : February 21, 2006

INVENTOR(S) : Rosana Kapeller-Libermann (as amended)

It is certified that an error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

INVENTORS:

Please make the following corrections to the Inventors:

In Section (75) of the Cover Page of the Patent, please delete "Susan L. Acton, Lexington, MA (US)."

PATENT NO. 7,001,753 B2

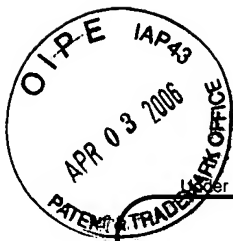
MAILING ADDRESS OF SENDER:

No. of additional copies 1

Name: Customer Number 30405 Intellectual Property Department MILLENNIUM PHARMACEUTICALS, INC.			
Address	40 Landsdowne Street	Zip Code	02139
City	Cambridge	Fax	617-551-8820
State	MA	Telephone	617-577-3522
Name (Print/Type)	Marjo Cloutier	Registration No. (Attorney/Agent)	Reg. No. 57,225
Signature	<i>Marjo Cloutier</i>	Date	March 31, 2006

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/81 (04-05)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**POWER OF ATTORNEY
and
CORRESPONDENCE ADDRESS
INDICATION FORM**

Application Number	Patent Number: 7,001,753 B2
Filing Date	Issue Date: February 21, 2006
First Named Inventor	Rosana Kapeller-Libermann (amended)
Title	59079 AND 12599, PROTEIN KINASE ...
Art Unit	1652
Examiner Name	Monshipouri, Maryam
Attorney Docket Number	MPI01-047P1RNM

I hereby revoke all previous powers of attorney given in the above-identified application.

I hereby appoint:

☒ Practitioners associated with the Customer Number:

30405

OR

☐ Practitioner(s) named below:

Name	Registration Number

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☒ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

30405

☐ Firm or
Individual Name

Address

City

State

Zip

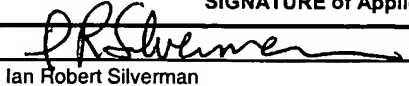
Country

Telephone

Email

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Signature		Date	March 31, 2006
Name	Ian Robert Silverman	Telephone	617 551 8604
Title and Company	Associate General Counsel		

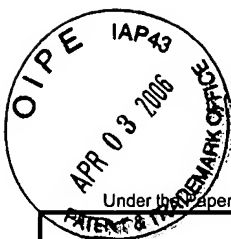
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below*.

☒ *Total of 1 forms are submitted.

This collection of information is required by 37 CFR 1.31, 1.32 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR - 6 2006

**STATEMENT UNDER 37 CFR 3.73(b)**Applicant/Patent Owner: Millennium Pharmaceuticals, Inc.Application No./Patent No.: 7,001,753 B2 Filed/Issue Date: February 21, 2006Entitled: 59079 AND 12599, PROTEIN KINASE FAMILY MEMBERS AND USES THEREFORMillennium Pharmaceuticals, Inc., a a Delaware corporation
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.
The extent (by percentage) of its ownership interest is _____ %

in the patent application/patent identified above by virtue of either:

- A. ☒ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel 013004, Frame 0384, or for which a copy thereof is attached.

OR

- B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
2. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.
3. From: _____ To: _____
The document was recorded in the United States Patent and Trademark Office at Reel _____, Frame _____, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

- ☒ Copies of assignments or other documents in the chain of title are attached.

[NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

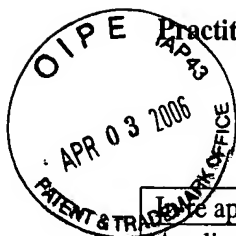
The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

I.R. Silverman
SignatureMarch 31, 2006
DateIan Robert Silverman
Printed or Typed Name617 551 8604
Telephone NumberAssociate General Counsel
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

APR - 6 2006



Practitioner's Docket No. MPI01-047P1RNM

COPY

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor application of:	Rosana Kapeller-Libermann (as amended)		
Application No.:	10/077,130	Group No.:	1652
Filed:	February 15, 2002	Examiner:	Montshipouri, Maryam
For:	59079 AND 12599, PROTEIN KINASE FAMILY MEMBERS AND USES THEREFOR		

Mail Stop Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**AMENDMENT AND PROCESSING FEE DELETING CORRECTLY
NAMED PERSON(S) WHO ARE NOT INVENTOR(S)
OF INVENTION NOW BEING CLAIMED
--NONPROVISIONAL APPLICATION
(37 C.F.R. SECTION 1.48(b))**

1. This amendment under 37 C.F.R. Section 1.48(b) is to delete the name of the following person named as an inventor and who is not the inventor of the invention now being claimed:

Susan L. Acton

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

- ☒ deposited with the United States Postal Service in an envelope addressed to Mail Stop Issue Fee, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

37 C.F.R. SECTION 1.8(a)

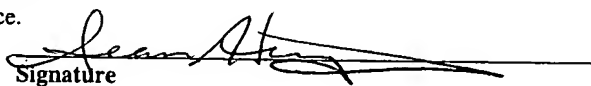
- ☒ with sufficient postage as first class mail.

37 C.F.R. SECTION 1.10*

- ☐ as "Express Mail Post Office to Addressee"
Mailing Label No.

TRANSMISSION

- ☐ transmitted by facsimile to the Patent and Trademark Office.


Signature

Date: July 21, 2005

Sean Hunziker

(type or print name of person certifying)

***WARNING:** Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

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Practitioner's Docket No. MPI01-047P1RNM

2. Claim(s) Now on File

The claim(s) in this application are as follows:

(check and complete all applicable items)

- ☐ originally filed claim(s) _____
☐ originally filed claim(s) _____
as amended on _____
☒ claim(s) 1-7, 12 and 18, allowed on May 23, 2005
☐ claim(s) _____ filed on _____
as amended on _____

3. Status of Inventorship After Amendment

(check the following item if all the inventor(s) remaining after this petition and amendment is accepted are not the inventor(s) of the subject matter of all the claim(s) now being claimed)

- ☐ Below is an explanation of the facts, including the ownership of all the claim(s) at the time the last claimed invention was made (Declaration of Inventorship and Common Ownership of Claims in Application).

4. Remarks

Susan L. Acton, while correctly named as an inventor on the application as filed, contributed to inventions no longer claimed in the present application. Therefore, in light of these facts, a correction of inventorship is required to delete Susan L. Acton as an inventor of the invention now being claimed. Consequently, the inventor to remain named on this application is Rosana Kapeller-Libermann. Entry of the amendment is respectfully requested prior to issuance of the present application.

5. Fee (37 C.F.R. Section 1.17(i))

The processing fee required by is paid as follows:

- ☐ Enclosed is a check for \$130.00.
☒ Charge Account 501668 for any fee deficiency.
☒ Charge Account 501668 the sum of \$130.00.

<u>July 21, 2005</u>	MILLENNIUM PHARMACEUTICALS, INC. By <u>Mario Cloutier</u> Mario Cloutier Limited Recognition Under 37 C.F.R. §11.9(b) 40 Landsdowne Street Cambridge, MA 02139 Telephone - 617-577-3522 Facsimile - 617-551-8820
----------------------	---

APR - 6 2005



AUGUST 21, 2002

PTAS

MILLENNIUM PHARMACEUTICALS, INC.
JEAN M. SILVERI
75 SIDNEY STREET
CAMBRIDGE, MA 02139

Chief Information Officer
Washington, DC 20231
www.uspto.gov



102132116A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 06/18/2002 ✓

REEL/FRAME: 013004/0384 ✓
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
KAPELLER-LIBERMANN, ROSANA ✓

DOC DATE: 04/24/2002

ASSIGNOR:
ACTON, SUSAN L. ✓

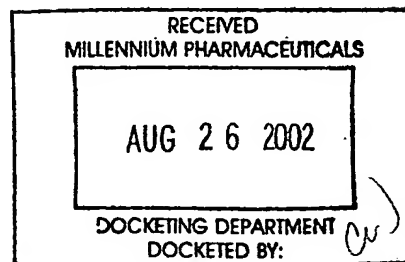
DOC DATE: 04/22/2002

ASSIGNEE:
MILLENNIUM PHARMACEUTICALS, INC. ✓
75 SIDNEY STREET
CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 10077130
PATENT NUMBER:

FILING DATE: 02/15/2002 ✓
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



APR - 6 2006

FORM PTO-1595
(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/95)
Tab Settings →



06-24-2002



102132116

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

To The Commissioner of Patents: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Rosana Kapeller-Libermann
86 Beacon Street
Chestnut Hill, Massachusetts 02467
United States of America
Citizenship: Brazil

6-18-02

Additional name(s) of conveying parties attached? ☒ Yes ☐ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

Execution Date: April 24, 2002

2. Name and address of receiving party (ies):

Name: Millennium Pharmaceuticals, Inc.

Internal Address: _____

Street Address: 75 Sidney Street

City: Cambridge State: MA Zip: 02139

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is : _____

A. Patent Application No.(s)

10/077,130

B. Patent No.(s)

Additional Numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jean M. Silveri

Internal Address: Millennium Pharmaceuticals, Inc.

Street Address: 75 Sidney Street

City: Cambridge State: MA ZIP: 02139

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41) \$ 40.00

☐ Enclosed

☒ Authorized to be charged to deposit account

8. Deposit account number:

501668

(Attach duplicate copy of this page if paying by deposit account)

OFFICE OF PUBLIC RECORDS
2002 JUN 18 PM 4:20
FINANCE SECTION

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Jean M. Silveri Reg. No. 39,030

Name of Person Signing

Signature

May 23, 2002

Date

Total number of pages including cover sheet, attachments, and document: 6

Mail documents to be recorded with required cover sheet information to:
Commissioner of Patents & Trademarks, Box Assignments
Washington, D.C. 20231

06/24/2002 6TOM11 00000037 501668 10077130

01 FC:581 40.00 CH

APR - 6 2006

RECORDATION FORM COVER SHEET (continued)

MPI01-047P1RNM

Rosana Kapeller- Libermann, et al.

USSN: 10/077,130

Filed: 2/15/02

For: 59079 and 12599, PROTEIN KINASE FAMILY MEMBER AND USES
THEREFOR

1. Name of conveying party(ies) (continued):

Susan L. Acton
42 Munroe Road
Lexington, Massachusetts 02421
United States of America
Citizenship: United States

Execution Date: April 22, 2002

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Practitioner's Docket No. MPI01-047P1RCP1M

PATENT

For: U.S. and Foreign Rights

For: U.S. Application

By: Inventors

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS:

Rosana Kapeller-Libermann
86 Beacon Street
Chestnut Hill, Massachusetts 02467
Nationality: Brazil

Susan L. Acton
42 Munroe Street
Lexington, Massachusetts 02421
Nationality: United States

hereby sell, assign and transfer to

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC.
75 Sidney Street
Cambridge, MA 02139
State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

59079 and 12599, PROTEIN KINASE FAMILY MEMBERS AND USES THEREFOR

and which is found in (37 C.F.R. section 3.21) U.S. Application Serial No. 10/077,130 filed on February 15, 2002, and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international

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agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 24 day of April, 2002.

Date: 04/24/02

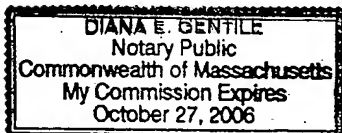
Rosana O Libermann
Signature of Rosana Kapeller-Libermann

NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts
County of Middlesex

Before me this 24th day of April 2002, personally appeared the above named **Rosana Kapeller-Libermann**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that she executed the same of her own free will for the purpose therein expressed.

Diana E. Gentile
Signature of Notary Public



Diana Gentile
Print Name
My Commission expires: 10/27/2006

APR - 6 2002

IN WITNESS WHEREOF, I have hereunto set my hand and seal this 22nd day of April, 2002.

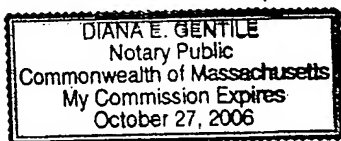
Date: 4/22/02

Susan L Acton
Signature of Susan L. Acton

NOTARIZATION ACCOMPANYING ASSIGNMENT

State/Commonwealth of Massachusetts
County of Middlesex

Before me this 22nd day of April 2002, personally appeared the above named **Susan L. Acton**, to me known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that she executed the same of her own free will for the purpose therein expressed.



Diana E. Gentile
Signature of Notary Public

Diana E. Gentile
Print Name
My Commission expires: 10/27/2006

APR - 6 2002